DOCUMENT RESUME

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PUB DATE [81]
NOTE 95p.; For related documents, see RC 013 920-927. Dr. I.R. Brooks is the developer of the test, originally known as the Achievement Test of Indian Children (ATC).
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IDENTIFIERS Money; *Standardized Curriculum Oriented Pupil Evaluation

ABSTRACT

Following instructions provided in the teacher's manual, the SCOPE Mathematics Achievement Test booklet for grade 2 presents 10 mathematical concepts. Testing items are: counting number of objects in a set to 100; using ordinals to the 31st; forming numerals correctly; writing number words to 10; identifying and naming the number of 10's and 1's in a two digit numeral; finding the number before or after a given number from 0 to 100; finding a number between two given numbers from 0 to 100; stating basic facts involving sums and minuends to 19; adding and subtracting two digit numbers without regrouping; demonstrating mastery of basic multiplication and division facts to 20. Other items tested include: reading and writing Roman numerals to XX; understanding commutative property for addition and multiplication; understanding associative property for addition; demonstrating the property of zero in addition and subtraction; counting collections of coins to $1; making purchases and giving change to $1; identifying fractions 1/2, 1/3, 1/4, in a concrete setting; constructing simple bar graphs; reading and interpreting celsius thermometer; telling time to the quarter hour; and reading dates on a calendar. (ERB)

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ED226936

Scope

Standardized Curriculum - Oriented Pupil Evaluation

MATHEMATICS

[1981]

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Test Book
Grade Two

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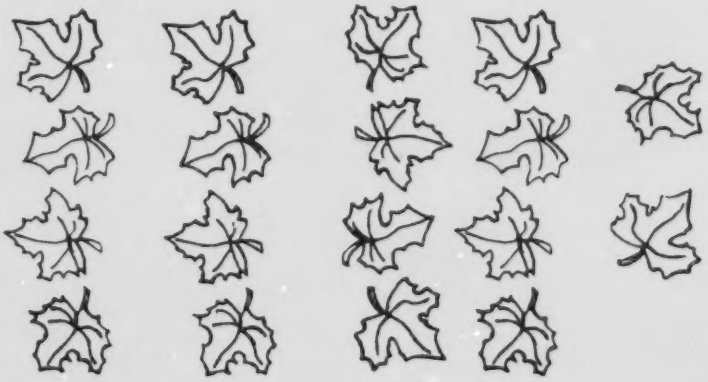
1.1a Counts number of objects in a set to 100.

Look at these ice-cream cones. How many are there? There are two. Look at these numbers. Which number shows how many ice-cream cones there are? The number 2 shows this. Let's mark the number 2 to show that there are 2 ice-cream cones. Watch me. (Put an X on the number 2). Now you mark the number 2.

1 2 3

Mark the number that shows how many leaves there are.

1

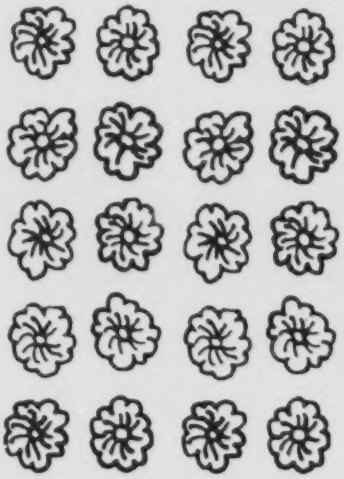


16 18 20

1

2

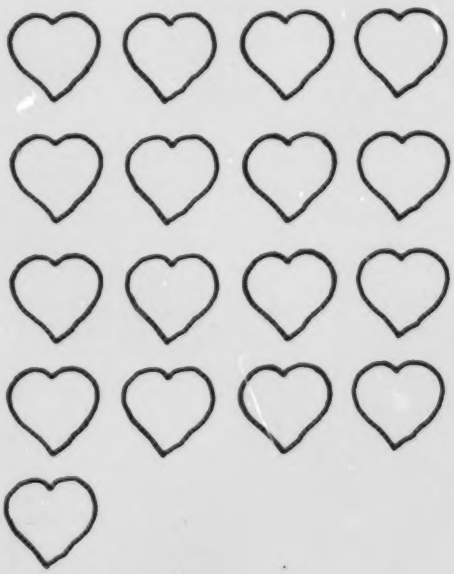
Mark the number that shows how many flowers there are.



10 20 30

3

Mark the number that shows how many hearts there are

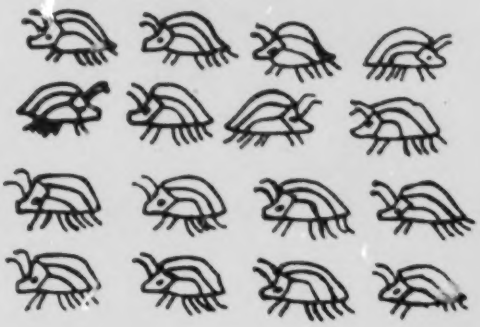


14 15

16 17

4

Mark the number that shows how many bugs there are.

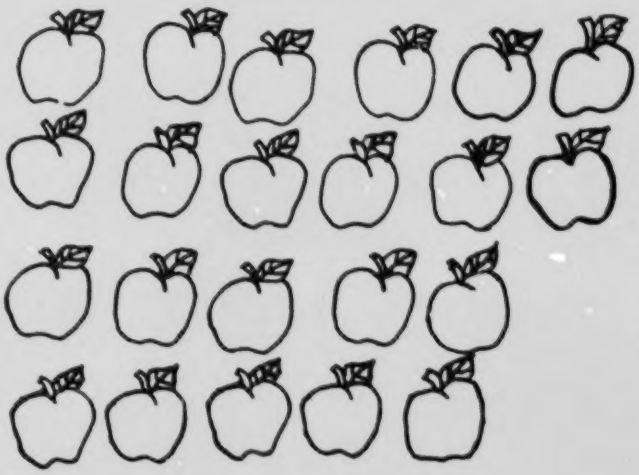


16 17

18 19

5

Mark the number that shows how many apples there are.



10 12

20 22

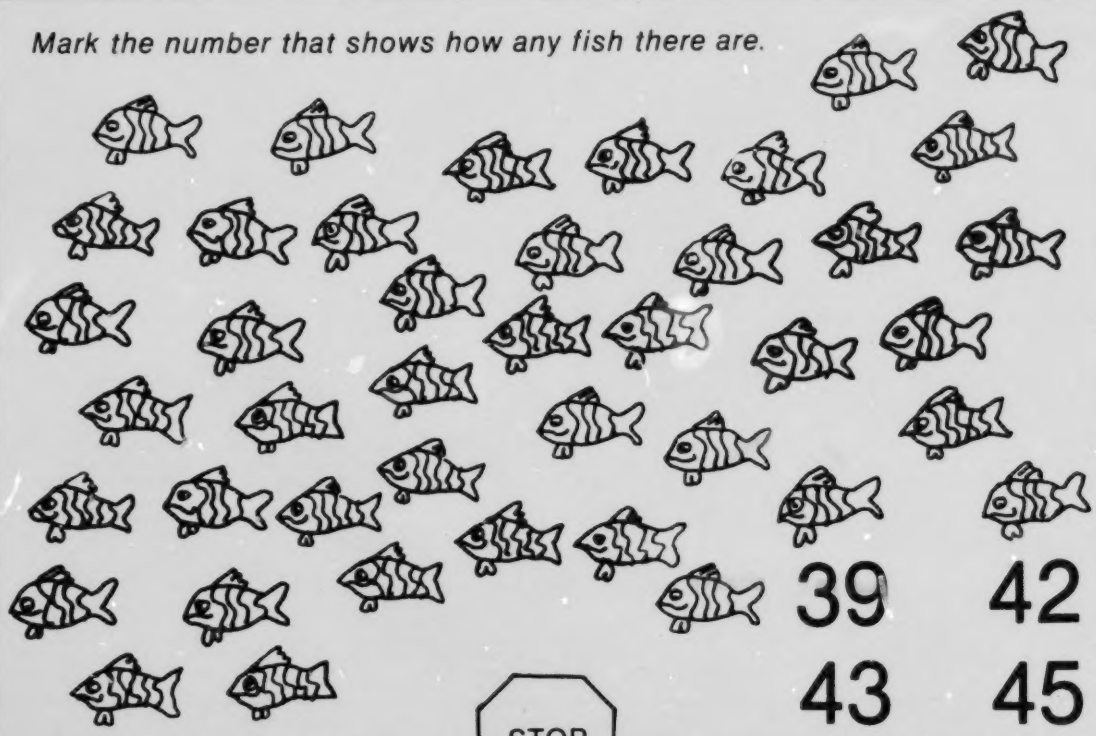
6

Mark the number that shows how many stars there are.

33 34 35 36

7

Mark the number that shows how any fish there are.



39 42

43 45

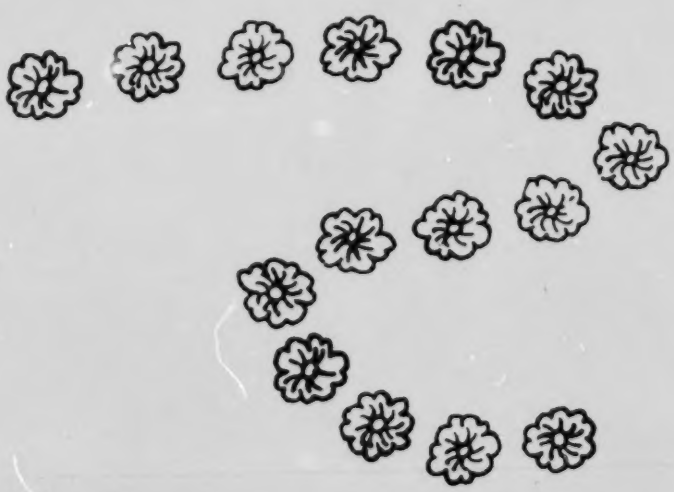
STOP

1.1b Uses ordinals to the 31st.

Look at these stars. This is the first star. (Point to the star at the top). Which is the second star? Let's mark the second star. Watch me. (Put an X on the second star). Now you mark the second star.

8

This is the first flower. Now you mark the twelfth flower.



9

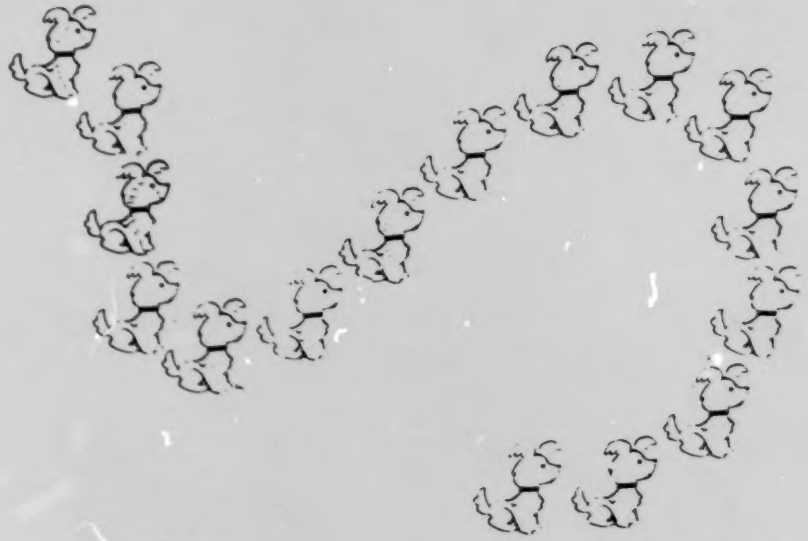
This is the first bug. Now you mark the eighteenth bug.

10

This is the first heart. Now you mark the twenty-ninth heart.

11

This is the first puppy. Now you mark the sixteenth puppy.



12

This is the first fish. Now you mark the twentieth fish.

13

This is the first caribou. Now you mark the thirtieth caribou.

14

This is the first chick. Now you mark the thirty-first chick.

STOP

10

1.3a Forms the numerals correctly.

In this space, let's print the number five. Watch me. Now you print 5 here.

15

Print the number ten here.

16

Print the number twenty-seven here.

17

Print the number forty-nine here.

12

18

Print the number sixty-eight here.

_____

19

Print the number seventy-three here.

_____

20 *Print the number ninety-four here.*

_____

21 *Print the number one hundred here.*

_____

STOP

14

1.3b Writes number words to ten.

Look at this number. It is the number one. Let's print the word that says 1 on this line. Watch me. Now you print "one" here.

1

_____

Look at this number. Which word goes with this number? Print it on the line.

22

2 _____

23

Print the word that goes with this number.

6

_____

24

Print the word that goes with this number.

8

_____

25

Print the word that goes with this number.

3

_____

26

Print the word that goes with this number.

5

_____

27

Print the word that goes with this number.

9

_____

28

Print the word that goes with this number.

10

_____

1.4 Identifies and names the number of tens and ones in a two digit numeral.

Look at this number. How many ones are in 23? There are 3. Let's write 3 in the space to show that there are 3 ones. Watch me. Now you write 3 here.

23

_____ones

29

Look at this number. How many ones are in 34? Write your answer in the space.

34

_____ones

30

How many groups of ten are in this number?

12

_____ *groups of ten*

31

How many groups of ten are in this number?

72

_____ *groups of ten*

20

32

How many ones are in this number?

95

_____ *ones*

33

How many ones are in this number?

53

_____ *ones*

34

How many groups of ten are in this number?

69

_____ *groups of ten*

35

How many ones are in this number?

82

_____ *ones*

STOP

20

1.5a Finds the number before or after a given number from 0 to 100.
1.5b Finds a number between two given numbers from 0 to 100.

Look at these numbers. Which number is missing? The number two is missing. Let's write the number 2 here. Watch me. Now you write 2 here.

1, ____, 3

Look at these numbers. Fill in the missing numbers in the spaces.

36

70, ____, 72, ____, 74, ____, 76

37

Fill in the missing numbers.

52, 53, ____, ____, 56, ____, 58

38

Fill in the missing numbers.

11, 12, ____, 14, ____, 16, ____, 18

39

Fill in the missing numbers.

21, 22, ____, 24, ____, 26, ____, 28

40

Fill in the missing numbers.

31, 32, ____, ____, 35, 36, 37, ____

41

Fill in the missing numbers.

61, ____, 63, ____, 65, 66, ____, 68

42

Fill in the missing numbers.

91, ____, ____, 94, ____, 96, 97, 98

24

2.1a States basic facts involving sums (and minuends) to 19.

Look at this question. What is the answer? The answer is 5. Let's write the answer in the space. Watch me. Now you write the answer here.

3 + 2 = ____

Answer these questions. Write your answer in the space. Stop when you come to the stop sign.

43

9 + 7 = ____

44

$13 + 5 = ____$

45

$5 + 9 = ____$

46

$11 + 6 = ____$

47

$8 + 2 = ____$

48

$7 + 6 = ____$

49

$8 + 7 = ____$

2.1b States basic facts involving (sums and) minuends to 19.

Look at this question. What is the answer? The answer is one. Let's write 1 here. Watch me. Now you write the answer here.

$3 - 2 = ____$

Answer these questions. Write your answer in the space. Stop when you come to the stop sign.

50

$15 - 4 = ____$

51

$19 - 1 = ____$

52

$10 - 8 = ____$

53

$16 - 9 = ____$

54

$17 - 8 = ____$

55

$13 - 5 = ____$

56

$14 - 4 = ____$

STOP

2.1c Adds (and subtracts) two digit numbers without regrouping.

Look at this question. What is the answer? The answer is 43. Let's write 43 in the space. Watch me. Now you write the answer here.

$$\begin{array}{r} 21 \\ +\ 22 \\ \hline \\ \hline \end{array}$$

Answer these questions. Write your answer in the space. Stop when you come to the stop sign.

57

$$\begin{array}{r} 65 \\ +\ 33 \\ \hline \\ \hline \end{array}$$

58

$$\begin{array}{r} 57 \\ +\ 12 \\ \hline \\ \hline \end{array}$$

59

$$\begin{array}{r} 31 \\ +\ 25 \\ \hline \\ \hline \end{array}$$

60

$$\begin{array}{r} 49 \\ +\ 50 \\ \hline \\ \hline \end{array}$$

61

$$\begin{array}{r} 23 \\ +\ 51 \\ \hline \\ \hline \end{array}$$

62

$$\begin{array}{r} 42 \\ +\ 13 \\ \hline \\ \hline \end{array}$$

63

$$\begin{array}{r} 31 \\ +\ 16 \\ \hline \\ \hline \end{array}$$

2.1d (Adds and) subtracts 2 digit numbers without regrouping.

Look at this question. What is the answer? The answer is one. Let's write 1 in the space. Watch me.
Now you write the answer here.

$$\begin{array}{r} 12 \\ -\ 11 \\ \hline \\ \hline \end{array}$$

Answer these questions. Write your answer in the space. Stop when you come to the stop sign.

64

$$\begin{array}{r} 19 \\ -\ 7 \\ \hline \\ \hline \end{array}$$

65

$$\begin{array}{r} 26 \\ -\ 5 \\ \hline \\ \hline \end{array}$$

66

$$\begin{array}{r} 28 \\ -\ 13 \\ \hline \\ \hline \end{array}$$

67

$$\begin{array}{r} 13 \\ -\ 12 \\ \hline \\ \hline \end{array}$$

68

$$\begin{array}{r} 97 \\ -\ 20 \\ \hline \\ \hline \end{array}$$

69

$$\begin{array}{r} 79 \\ -\ 53 \\ \hline \\ \hline \end{array}$$

70

$$\begin{array}{r} 99 \\ -\ 80 \\ \hline \\ \hline \end{array}$$

2.2 Demonstrates mastery of basic multiplication facts to 20.

Look at this question. What is the answer? The answer is two. Let's write 2 here. Watch me. Now you write the answer here.

$2 \times 1 = ____$

Answer these questions. Work out answers in your head. Do not use your fingers or pencil marks to count. Stop when you come to the stop sign.

71

$3 \times 2 = ____$

72

$3 \times 3 = ____$

73

$5 \times 2 = ____$

74

$4 \times 3 = ____$

75

$8 \times 2 = ____$

76

$6 \times 3 = ____$

77

$4 \times 5 = ____$

2.3 Demonstrates mastery of basic division facts to 20.

Look at this question. What is the answer? The answer is two. Let's write 2 in the space. Watch me. Now you write the answer in the space.

$4 \div 2 = ____$

Answer these questions. Write your answer in the space. Stop when you come to the stop sign.

78

$6 \div 3 = ____$

79

$$14 \div 2 = ____$$

80

$$18 \div 6 = ____$$

81

$$12 \div 12 = ____$$

82

$$15 \div 3 = ____$$

83

$16 \div 8 = ____$

84

$20 \div 5 = ____$

STOP

3.3 Reads and writes Roman numerals to XX.

Look at this question. Let's write the Roman numeral that means number 1 in the space. Watch me. Now you write the Roman numeral for 1.

1 = _____

85

Write the following number as a Roman numeral.

2 = _____

86

Write the following number as a Roman numeral.

$9 = ____$

87

Write the following number as a Roman numeral.

$14 = ____$

88

Write the number that this Roman numeral stands for.

IV = _____

89

Write the number that this Roman numeral stands for.

VIII = _____

Answer these two questions.

90

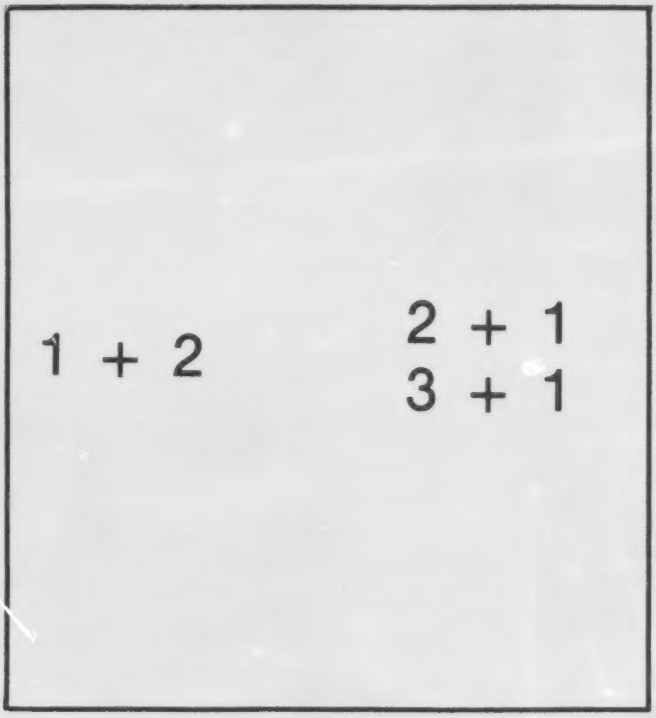
XII = ____

91

XIX = ____

4.1a Understands commutative property for addition (and multiplication)

Look at this. (Point to 1 + 2). Which one of these (point to 2 + 1 and 3 + 1) is the same as 1 + 2? 2 + 1 is the same as 1 + 2. Let's draw a line from 1 + 2 to 2 + 1. Watch me. Now you draw a line from 1 + 2 to 2 + 1 to show that they are the same.



Draw a line from each of these on the left to one of these on the right that is the same.

92 2 + 3

93 3 + 4

94 5 + 3

4 + 3

1 + 5

3 + 5

9 + 0

4 + 2

3 + 2

95 2 + 7

96 2 + 3 + 3

97 3 + 4 + 1

98 5 + 1 + 2

7 + 2

5 + 4

1 + 4 + 3

6 + 5 + 4

9 + 3

2 + 1 + 5

3 + 3 + 2

4.1b Understands the commutative property for (addition and) multiplication.

Look at this (point to 2 × 1). Which of these (point to 1 × 2 and 3 × 1) is the same as 2 × 1? 1 × 2 is the same as 2 × 1. Let's draw a line from 2 × 1 to 1 × 2. Watch me. Now you draw a line from 2 × 1 to 1 × 2 to show that they are the same.

2 × 1

1 × 2
3 × 1

Draw a line from each of these on the left to one of these on the right that is the same.

99 3 × 2
100 5 × 6
101 4 × 7

5 × 3
6 × 5
7 × 4
2 × 4
2 × 3

102 2×7

103 5×3

104 4×1

105 6×8

3×5

5×4

8×6

2×6

7×2

1×4

6×5

58

4.2 Understands associative property for addition.

Look at this question. What is the answer? The answer is three. Let's write 3 in the space. Watch me. Now you write the answer in the space.

$(1 + 1) + 1 =$ _____

Answer these questions. Write your answer in the space. Stop when you come to the stop sign.

106

$(2 + 3) + 1 =$ _____

59

107

$5 + (0 + 2) = _____$

108

$(4 + 4) + 1 = _____$

109

$10 + (6 + 1) = _____$

110

$8 + (2 + 4) = _____$

61

111

$(3 + 3) + 4 = _____$

112

$(2 + 2) + 4 = _____$

62

4.3 Demonstrates the property of zero in addition and subtraction.

Look at this question. What is the answer? The answer is one. Let's write 1 in the space. Watch me. Now you write the answer in the space.

$1 + 0 = _____$

Answer these questions. Write your answer in the space. Stop when you come to the stop sign.

113

$14 + 0 = _____$

114

$19 + 0 = _____$

115

$0 + 20 = _____$

116

$7 + 0 + 2 = _____$

117

$11 - 0 = _____$

118

$15 - 0 = _____$

119

$17 - 0 = _____$

6.1a Counts collections of coins to $1.00.

Look at this money. How much is here? There are six cents. Let's write six cents here. Watch me. Now you write 6¢ in the space.

_____ ¢

Look at these questions. How much money is shown in each one? Write your answer in the space. Stop when you come to the stop sign.

120

_____ ¢

67

121

5 CENTS
CANADA
1973

1 CENT
1974
CANADA

1 CENT
1974
CANADA

_____ ¢

122

CANADA
1911
5 CENTS

1 CENT
1974
CANADA

5 CENTS
CANADA
1973

_____ ¢

CS

123

5 CENTS
CANADA
1973
CANADA
25 cents
1978
1 CENT
1974
CANADA

¢

124

CANADA
1977
10 cents
CANADA
1977
10 cents
5 CENTS
CANADA
1973
5 CENTS
CANADA
1973
1 CENT
1974
CANADA
1 CENT
1974
CANADA

¢

125

_____ ¢

126

STOP

70

6.1b Makes purchases and gives change to $1.00.

Look at this problem. (Read it aloud.) How much money should I get back? The answer is 4¢. Write 4¢ in the space.

I have 10¢.

I spend 6¢.

I get _____¢ change.

Look at this problem. (Read it aloud.) Write your answer in the space. (Repeat these directions for each question.)

127

I have 15¢.

I spend 8¢.

I get _____¢ change.

128

Susan had 29¢.
She spent 17¢.

She gets _____¢ change.

129

Mark had 95¢.
He spends 75¢.

He gets _____¢ change.

130

John had 78¢.
He spends 54¢.

He gets _____¢ change.

131

Sally had 93¢.
She spends 52¢.

She gets _____¢ change.

132

John had 44¢.
He spends 21¢.

He gets _____¢ change.

133

Jim had 18¢.
He spends 9¢.

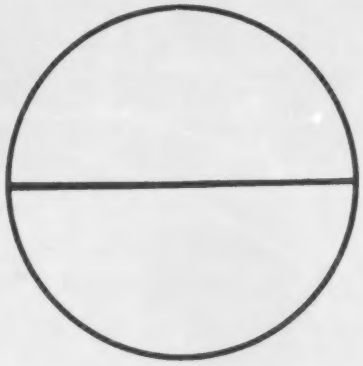
He gets _____¢ change.

STOP

7.1 Identifies fraction ½, ⅓, ¼, in a concrete setting.

Look at this fraction. How much does it say? Let's color in ½ of the circle to show how much the fraction says. Watch me. Now you color in half of the circle.

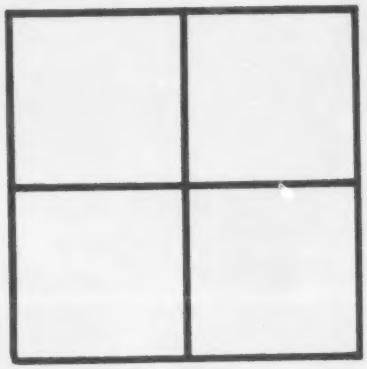
$\frac{1}{2}$



Look at these questions. Color in part of the shape to show the fraction in each question. Stop when you come to the stop sign.

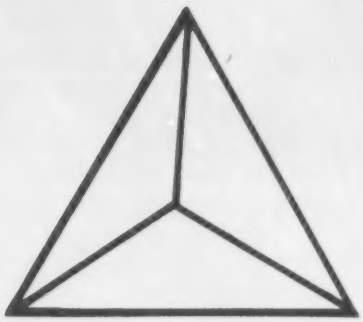
134

$\frac{1}{4}$



135

$\frac{1}{3}$



136

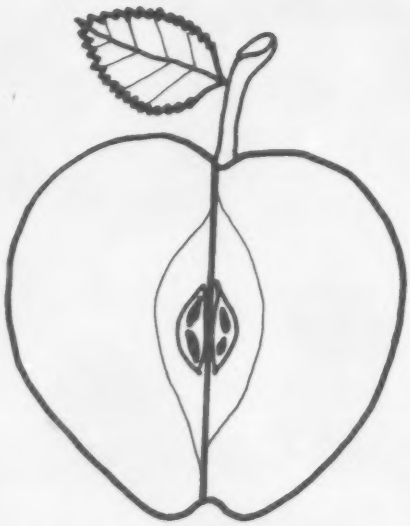
$\frac{1}{2}$

137

$\frac{1}{4}$

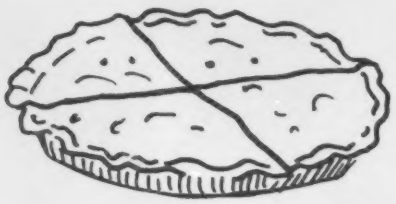
138

$\frac{1}{2}$



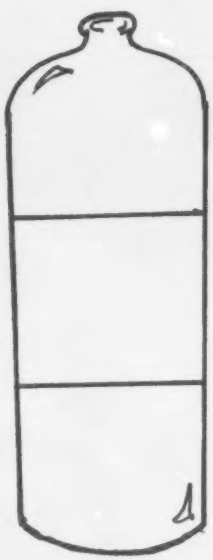
139

$\frac{1}{4}$



140

$\frac{1}{3}$



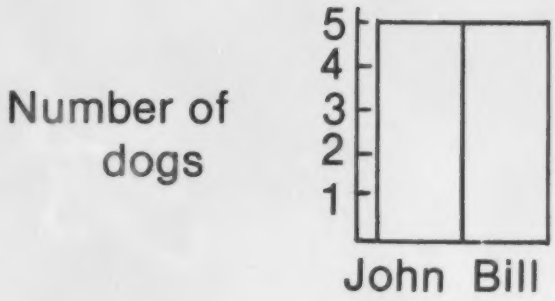
STOP

78

9.1 Constructs simple bar graph

John and Bill have sled dogs. John has 1 dog and Bill has 2. Let's complete the bar graph to show how many dogs each boy has.
Watch me. Now you complete the graph in your book.

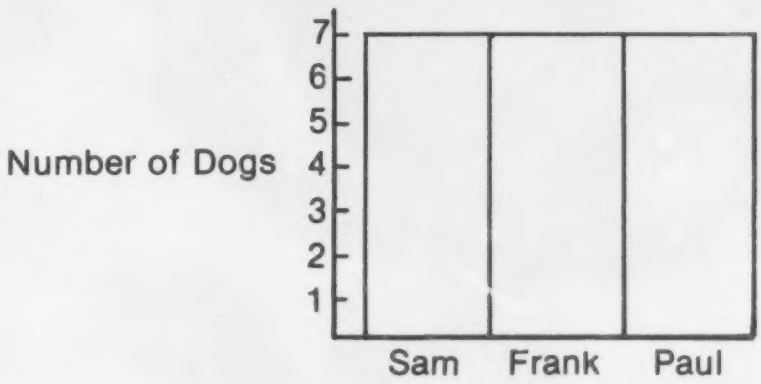
John: 1 dog
Bill: 2 dogs



141

Sam, Frank and Paul have sled dogs. Sam has 2 dogs, Frank 3, and Paul 6. Complete the bar graph to show how many dogs each boy has.

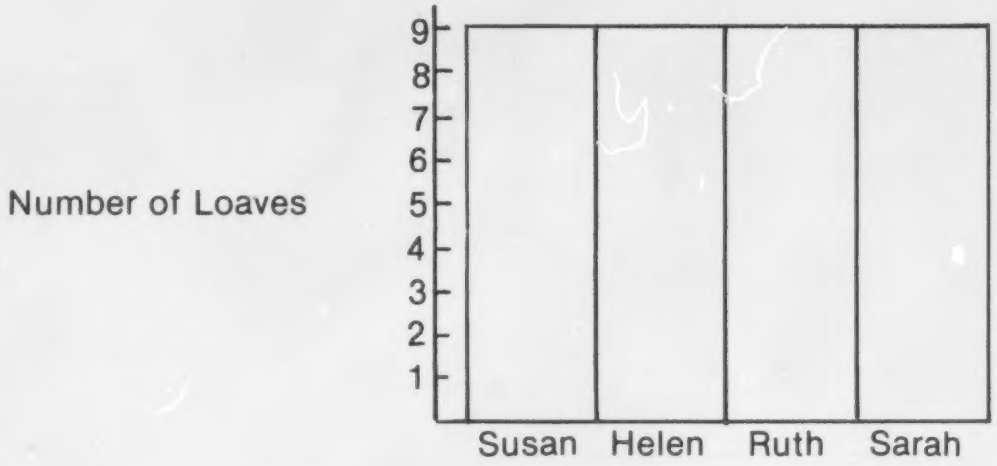
Sam: 2 dogs, Frank: 3 dogs, Paul: 6 dogs.



79

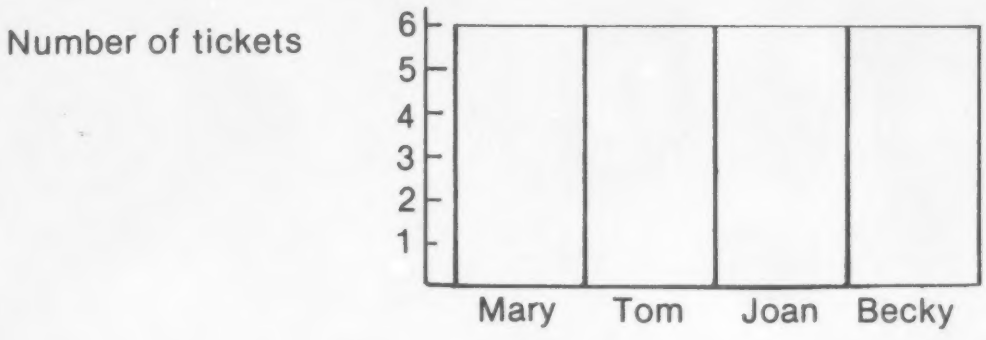
142 *Susan, Helen, Ruth and Sarah baked some bread. Susan baked 4 loaves, Helen 8, Ruth 5 and Sarah 7. Complete the bar graph to show how many loaves each baked.*

Susan: 4 loaves
Helen: 8 loaves
Ruth: 5 loaves
Sarah: 7 loaves



143 *Mary, Tom, Becky and Joan tried to sell tickets for the town dance. Mary sold 6, Tom 6, Becky 0, and Joan 5. Complete the bar graph to show how many tickets each sold.*

Mary: 6 tickets
Tom: 6 tickets
Becky: 0 tickets
Joan: 5 tickets



144

There are 15 children in Miss Carrier's class. Six have red hats, 4 blue hats, 2 green and 3 yellow. Complete the bar graph to show how many children have red, blue, green or yellow hats.

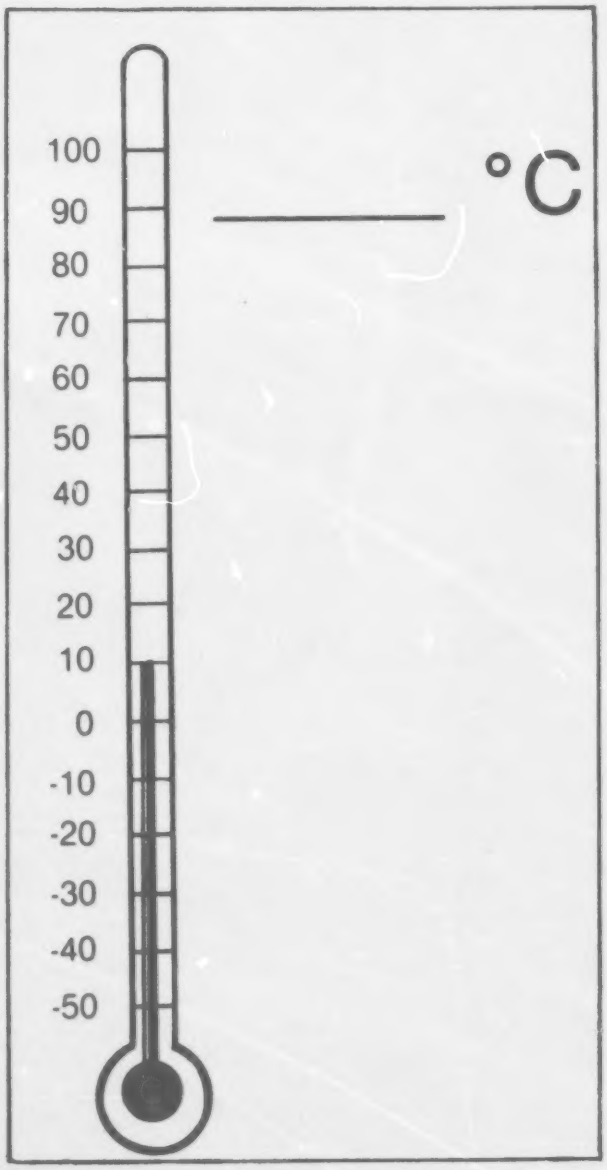
Red hats: 6
Blue hats: 4

Green hats: 2
Yellow hats: 3

STOP

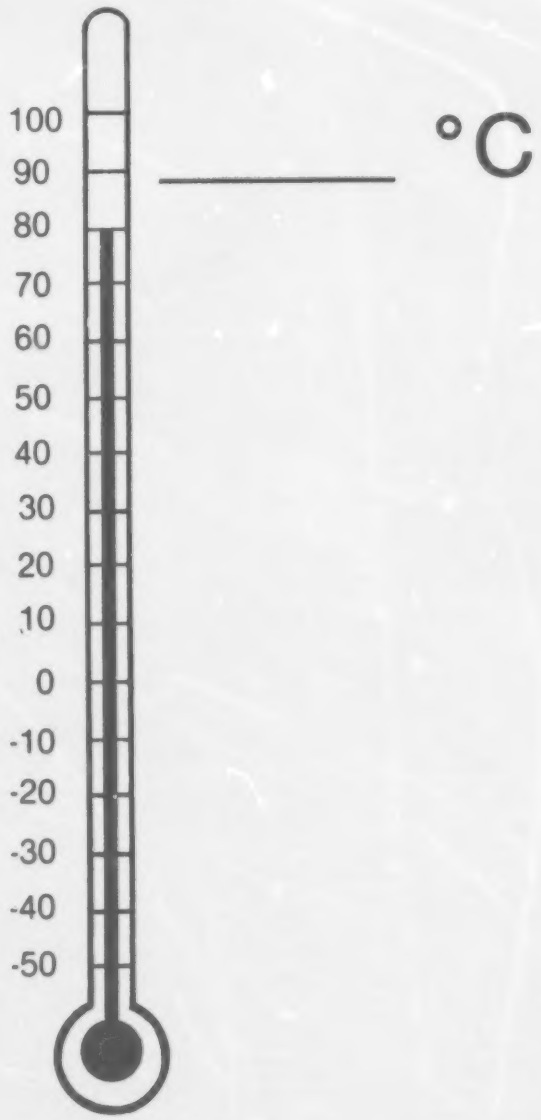
10.6 Reads and interprets celsius thermometer.

Look at this thermometer. What temperature does it show? It says 10°C here. Let's write 10°C. Watch me. Now you write 10°C here.



Write the temperature shown by this thermometer.

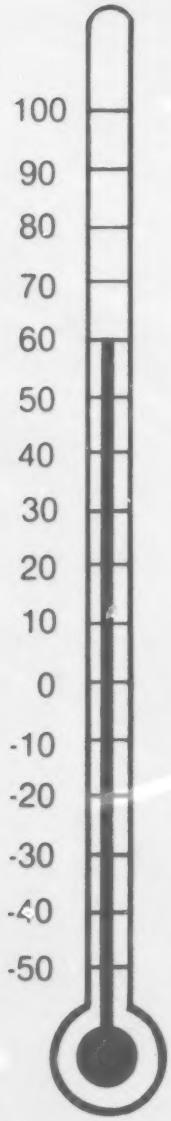
145



Write the temperature shown by these thermometers.

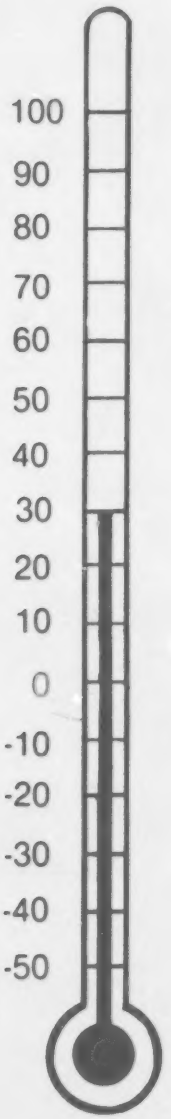
146

_____ °C



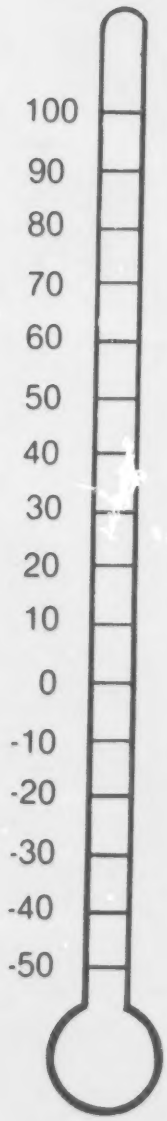
147

_____ °C



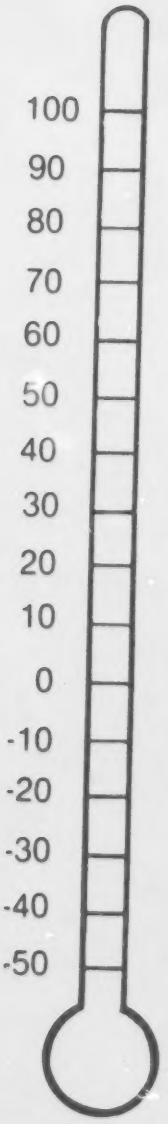
Mark 0° on this thermometer.

148



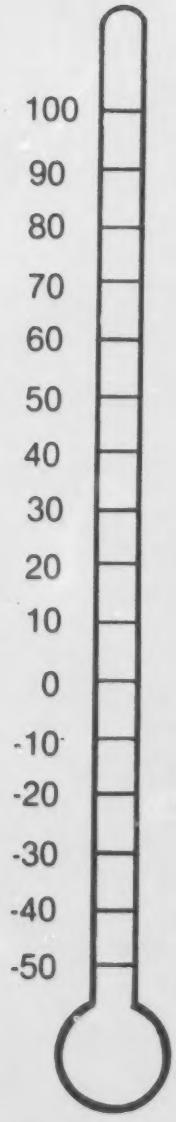
Mark 40°C on this thermometer.

149



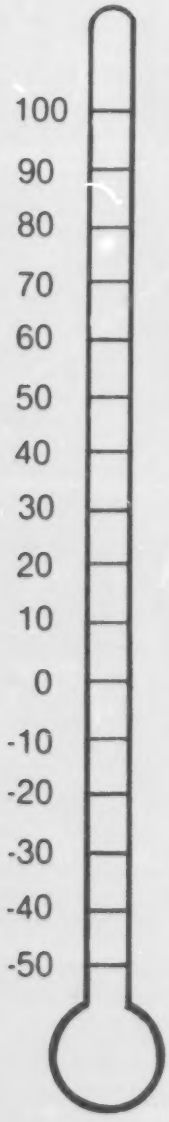
Make this thermometer read 70°C.

150



Make this thermometer read 20°C.

151



10.7a *Tells time to the quarter hour.*

Look at this clock. What time does it say? It is 3 o'clock. Let's write 3 o'clock in the space. Watch me. Now you write the time shown by the clock in the space.

152

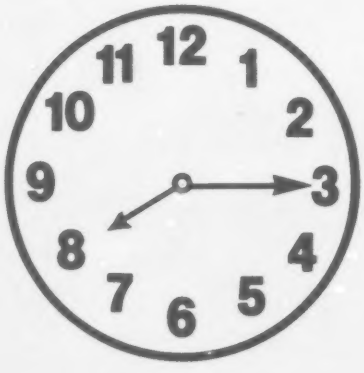
Look at this clock. What time does it say? Write the time on this line.

_____

153 *What time does this clock say?*

_____

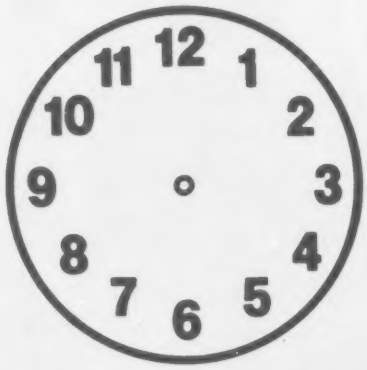
154 *What time does this clock say?*



_____

155

Make this clock say 6:15.



6:15

156

Make this clock say 2:45.

2:45

157

Make this clock say 9:15.

9:15

158

Make this clock say 11:15.

11:15

10.7b Reads dates on a calendar.

Instructions

Look at this calendar. Let's mark an X on Tuesday, November 1. Watch me. Now you put an X on Tuesday, November 1.

November

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Put an X on Wednesday, April 9.

159

April

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

160 *Mark an X on Friday, July 28.*

July

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24/31	25	26	27	28	29

161 *What day and date is marked with a circle? Print the day and date on this line.*

May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	(17)	18	19	20	21	22
23/30	24/31	25	26	27	28	29

_____

What day and date is circled here?

162

August

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	(25)	26
27	28	29	30	31		

_____

What day and date is circled here?

163

June

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	(11)	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

_____

164

What day and date is circled here?

September

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
(16)	17	18	19	20	21	22
23	24	25	26	27	28	29

_____

165

What day and date is circled here?

January

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	(31)		

_____

PROGRAMS AND EVALUATION BRANCH
DEPARTMENT OF EDUCATION
NORTHWEST TERRITORIES

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